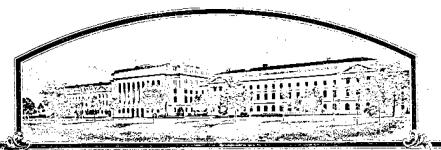
No.

Plant Variety Protection C



7200020

THE UNIVERD STRAILES OF ANTERIOS

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Rogers Brothers Company

Wilherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of &eventeen—years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or using it in producing a hybrid or different variety therefrom, to the extent provided by the Plant Variety Protection Act \$ \$tat. 1542, as amended, 7 u.s.c. 2321 et seq.)

BEAN

'Roma'

In Testimony Withercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 12th day of August in the year of our Lord one thousand nine hundred and seventy-four.

Earl L Bett

ROMA

EXHIBIT 12A

Origin and Breeding History of the Variety

ROMA, Bush Romano Bean

ROMA was developed by Rogers Brothers Company from a cross between BACHICHA and ROMANO POLE BEAN in an effort to develop a Bush Romano variety. Romano had gained some popularity in the United States, but was difficult to harvest because of its runner habit. A Bush Romano with a concentrated pod set would be a definite advantage.

Romano Pole was oval, buff seed, and Bachicha has plump, brown or reddish seed with cream colored ends on the dorsal side, and the cream area is speckled with red.

The original cross, Bachicha x Romano Pole, was made in 1961. The F seed was increased in the field the same year, with a harvest of $8^1/4$ ounces of buff and red mottled seed. Eleven ounces of buff and white seed were harvested in 1962 from a bulking of promising bush type plants. In the F_3 , ten single plants were selected with buff and buff mottled seed. In the F_4 , four of these selections were saved. In the F_6 , one of these selections produced one-half pound of white segregates and three pounds of buff mottled seed. This selection had a nice bush type and a concentrated set of pods. Pods were broad, and flat, with slow seed development and were free from fiber. The white seeds were increased as Bush Romano #308. The seeds are white, plump, oval, and there are approximately one thousand seeds per pound. Pureline selections from this original increase are now ready for commercial production.

FORM GR - 470 (12-15-72)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

NSTRUCTIONS: See Reverse. 1. VARIETY NAME OR TEMPORARY	2. KIND NAME		FOR OFFICIAL USE ONLY		
DESIGNATION					
Roma	Romano Bush E		720 2 0		
3. GENUS AND SPECIES NAME	4. FAMILY NAME (Bot	tenical)	FILING DATE 8/23/7/	9:00 P.M.	
				BALANCE DUE	
Phaseolus Vulgaris	Leguminosae	4131 A T1051	FEE RECEIVED	\$	
· · · · · · · · · · · · · · · · · · ·	5. DATE OF DETERM	MOLLANIM	\$ 30.00	\(\frac{\pi}{s}	
			200.00	- \$	
	August, 1968	nd No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA	
6. NAME OF APPLICANT(S)	0 . 4 - 1		Title manner of manner with	CODE AND NUMBE	
ROGERS BROTHERS COMPANY	3100	Rollandet		}	
	P.O.	Box 2188	83401	208-522-0110	
	Idaho	Falls, Idaho	ししずしエ		
9. IF THE NAMED APPLICANT IS NOT A	PERSON, FORM OF	10. STATE OF INCO	RPORATION	11, DATE OF INCOR-	
ORGANIZATION: (Comporation, partnersh	ip, essociation, etc.)			1958	
Corporation				1	
12. Name and mailing address of app	licant representative(s	s), if any, to serve	in this application	n and receive all paper	
1 11	- ministrativo Δsei	istant			
John Kurzenhauser, Ad	штитастастус дзэ. Му	_ =			
ROGERS BROTHERS COMPA	IA T				
P. O. Box 2188	3//01				
Idaho Falls, Idaho 8	3401				
		<u> </u>			
13. CHECK BOX BELOW FOR EACH ATT	ACHMENT SUBMITTED:	<u> </u>		Warista Datasian A	
13. CHECK BOX BELOW FOR EACH ATTA	ACHMENT SUBMITTED: Breeding History of the	: Variety (See Sect	ion 52 of the Plant	Variety Protection Ac	
🔀 13A. Exhibit A, Origin and F	Breeding History of the		ion 52 of the Plant	Variety Protection Ac	
13. CHECK BOX BELOW FOR EACH ATT. 13A. Exhibit A, Origin and E 13B. Exhibit B, Botanical D	Breeding History of the		ion 52 of the Plant	Variety Protection Ac	
138. Exhibit A, Origin and E	Breeding History of the	ety	ion 52 of the Plant	Variety Protection Ac	
🔀 13A. Exhibit A, Origin and F	Breeding History of the	ety	ion 52 of the Plant	Variety Protection Ac	
13A. Exhibit A, Origin and E	Breeding History of the escription of the Varie	ety	ion 52 of the Plant	Variety Protection Ac	
13A. Exhibit A, Origin and E	Breeding History of the escription of the Varie	ety	ion 52 of the Plant	Variety Protection Ac	
13A. Exhibit A, Origin and E 13B. Exhibit B, Botanical D 13C. Exhibit C, Objective D X 13D. Exhibit D, Data Indica	Breeding History of the escription of the Varie escription of the Varie tive of Novelty	ety	ion 52 of the Plant	Variety Protection Ac	
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INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

ROMA

EXHIBIT 12B.

Botanical Description of the Variety

ROMA, Romano bush bean is somewhat comparable in type to Romano Bush
R-14) developed by Ferry-Morse Seed Company. The bush height of Roma
is approximately 40.6 cm (16 inches) which is comparable to the bush
height of FM R-14. Roma has an erect-spreading bush, but is more
erect than the bush of FM R-14) Roma has a 12.7 cm pod in length,
17.2 mm deep and 7.8 mm wide. This is deeper than the pod of FM R-14.

The pod color of Roma and FM R-14 are comparable, but Roma has a
smoother pod with less pubescence. Roma has a determinate bush habit
in contrast to the elongated raceme tendency of FM R-14.

Bush Romano 14
Research

Bush Romano 14
Research

Resea

EXHIBIT D

ROMA BUSH ROMANO

August 14, 1973

Novelty of Roma is based on the unique combination of the following characters:

Roma most closely resembles Ferry-Morse R-14 but has the following exceptions:

Roma has 1) a more erect bush; 2) a deeper pod; 3) slower seed development; 4) white seed; 5) a smoother pod with less pubescense; 6) a more determinate bush in contrast to the elongated raceme tendency of R-14. Bosh Romano 14'

* ACCORDING TO FERRY-MORSE WETTER OF MAY 31, 1974

ROMA

EXHIBIT 12E

Statement of the Basis of Applicant's Ownership

Roma was bred and developed by Dr. M. E. Anderson, Plant Breeder for Rogers Brothers Company, and is the property of Rogers Brothers Company.

EXHIBIT C

(Bean)

FORM GR-470-12 (1.1-15-72)

INSTRUCTIONS: See Reverse.

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

GRAIN DIVISION

HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY

BEAN (PHALEOLUS VULGARIS)

FOR OFFICIAL USE ONLY NAME OF APPLICANT(S) ROGERS BROTHERS COMPANY PVPO NUMBER ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 72020 P. O. Box 2188 VARIETY NAME OR TEMPORARY **DESIGNATION** Idaho Falls, Idaho 83401 Roma Place the appropriate number that describes the varietal character of this variety in the boxes below. (supplementary and revised Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99 or less or 9 or less. data) 1. TYPE: 1 1 = SNAPBEAN 2 = GREEN SHELL 3 = DRY EDIBLE 4 = MULTIPURPOSE 2. SEASON AND REGION OF ADAPTABILITY IN THE U.S.: Grows best during: 1 = SPRING 2 = SUMMER 3 = FALL 4 = WINTER 1 = NORTHWEST 2 = NORTHCENTRAL 3 = NORTHEAST **★** = SOUTHEAST Best adapted in: 5 = SOUTHWEST 6 = MOST REGIONS MATURITY (Days from seeding to first harvest): 8 GREEN PODS GREEN SHELLS DRY SEEDS NO. DAYS EARLIER THAN -----1 = TENDERCROP 2 = KENTUCKY WONDER 3 = KINGHORN WAY 4 = WHITE KIDNEY 6 = DWARF HORTI-5 = MICHELITE 62 7 = BUSH BLUE LAKE 8 = OTHER (Specify) Slenderwhite 2 8 0 NO. DAYS LATER THAN -----4. PLANT: 1 = DETERMINATE, ERECT BUSH 2 = DETERMINATE, SPRAWLING BUSH 2 3 = DETERMINATE, SEMIPOLE 4 = INDETERMINATE, POLE 0 3 CM. HEIGHT OR LENGTH OF VINE FROM PRIMARY LEAF NODE 3 7 CM. SPREAD 0 0 3 NUMBER PRIMARY BRANCHES PER MAIN STALK NUMBER INTERNODES ON MAIN STALK BETWEEN PRIMARY LEAF AND BASE OF 1 0 4 Branching habit: 1 = COMPACT 2 = OPEN TERMINAL INFLORESCENCE MM 2M. LENGTH OF FIRST INTERNODE ABOVE PRIMARY LEAF MM. STALK DIAMETER ABOVE 0 FIRST TRIFOLIATE LEAF RJS. Main stalk: 1 = BRITTLE 2 = WIREY 2. THIN 2 Flower position: 1 = LOW, CONCENTRATED 2 = HIGH, CONCENTRATED 3 = SCATTERED Pod Position: LEAVES:) = SMOOTH 2 = WRINKLED 1 = DULL 2 = GLOSSY Thickness: 1 = THIN 2 = MEDIUM 3 = THICK CM. PETIOLE LENGTH 1 = SMALL (Earliwax) 3 = LARGE (Tendercrop) 2 = MEDIUM(To basal leaflets of first trifoliate leaf) Tip shape of center leaflet: 1 = ROUNDED 2 = TAPER POINTED 3 = SHARP POINTED PUBESCENCE - Dorsal: 1 = NONE2 = SLIGHT 3 = CONSIDERABLE PUBESCENCE - Ventral: Color: 1 = LIGHT GREEN (Bountiful) 3 = DARK GREEN (Bush Blue Lake) 2 = MEDIUM GREEN

1 Color:	1 = WHITE	2 = CREAM	3 = PINK	4 = LILAC	5 = PURPLE	
	6 = OTHER	(Specify)				
3 .			_			•
3 Racemes:	1 ≈ LONG	2 = MEDIUM	3 ≃ SHOF	₹T NUMBE	R FLOWERS PER RA	CEME
7. FRESH POD	5: (Edible maturity	y, averages for 10 pc	ds)			
2 Color:	1 = LIGHT GRE	EN (Bountiful)	2 = MEDI	UM GREEN (Tender	rgreen) 3 ≈ D	ARK GREEN (Wade)
	4 = LIGHT YELL	LOW (Brittlewax)	5 = GOLD	EN YELLOW (Cher	•	REEN-RED VARIAGATED Iorticultural)
	7 = OTHER (Spe	cify)	-		(**	
1 3 CM. L	ENGTH ,	17- MM. WI	IDTH en sutures)	0 7 MM. TH	ICKNESS 2	THICKNESS X 10
Cross sec	tion pod shape:		2 = OVAL	3 = CREASEBACK	4 = ROUND	, ~00
Curvature:	1 = STRAIGHT _ 3 = CURVED	2 = SLIGHTLY CL	JRVED	2 Pubescence:	1 = NONE : - '2 = 5	PARSE 3 = CONSIDERAE
2 Constrictio	ns: 1 = NONE	2 = SLIGHT 3	= DEEP	2 Spur: 1 = S	TRAIGHT 2 = SLIG	HTLY CURVED 3 = CUI
2 Surface:	1 = SHINY	2 = DULL		1 Surface:	1 = SMOOTH · 2	. ± BLISTERED
1-2 Pod flesh:	1 ≠ ∟і6нт	2 = DARK		Pod flesh:	1 = FIRM 2	= WATERY
10 MM. SPUR	LENGTH			2 Suture string	: 1 = PRESENT 2	2 = ABSENT
Fiber: 1	± NONE 2 = SF	PARSE 3 = CONS	IDERABLE	3 Seed develop	ment: 1 = SLOW	2 = MEDIUM 3 = FAST
5 NUMBER C	F SEEDS PER PO	D		7 NUMBER PC	DDS PER PLANT (One	ce o v er harvest)
5 NUMBER M	ARKETABLE POD	S PER PLANT (On	ce over harvest)	1 Machine harv	rest: 1 ≈ ADAPTE	D 2 = NOT ADAPTED
B. SEED COAT	COLOR:				· ·	
1 = MONG	CHROME 2 =	POLYCHROME		1 = SHIN	Y 2 = DULL	
1 Primary c	olor:)	1 = WH!TE 2	≖ YELLOW	3 = BUFF 4	= TAN	
Secondary	, color.	5 = BROWN 6	= PINK	7 = RED 8:	= PURPLE	
Scandary		9 = BLUE 10:	= BLACK	11 = OTHER (Spec	ify)	
Color patte	en: l=spL	ASHED 2 = MOT	TTLED 3 = 5:	TRIPED 4 = FI	LECKED 5 = DOT	TED
	_	= HILAR RING				
Secondary (S = STROPHIOLE S = SIDES		4 = MICRO		
_		= NOT RESTRICTE	ED TO ANY AREA		NATION OF LOCATIO	NS (Specify)
1 Hilar ring:	1 = NOT PRE	SENT 2 = NARR	:OW 3 = BUT	TERFLY SHAPED		
		Ì = ABSENT				
	AND SIZE:		Z = PRESENT			
- -			· _		l=oval 2	ROUND
1 Intum view	T = ELLIPTIC	AL 2 = OVAL 3	3 = ROUND	1 Side view:	3 = KIDNEY 4 =	TRUNCATE ENDS
2 Cross secti		ICAL 2 = OVAL [E 4 = ROUNE		38 GM. WEIGHT	PER 100 SEEDS	
3 Classificat	ion:] = Pi	EA 2≐MED	11UM 3 = 1	MARROW 4	= KIDNEY	= PINTO
0 7 MM. W	IDTH (Dorsel to ve	entrel)		0 6 MM. TH	ICKNESS (Side to side	
1 B MM.	ENGTH				WIDTH X 10	5

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IO. ANTHOCYANIN: (1 = Absent 2 = Present):							
1 FLOWERS 1 STEMS 1 PODS	1 SEEDS 1 LEAVES						
11. DISEASE RESISTANCE (0 = Not tested; 1 = Susceptible; 2 = Resistant):							
1 RUST (Specify race)	O ANGULAR LEAF SPOT						
0 BACTERIAL WILT	0 COMMON BEAN MOSAIC						
0 ANTHRACNOSE	1 YELLOW BEAN MOSAIC						
0 SOUTHERN BEAN MOSAIC	1 FUSARIUM ROOT ROT						
1 CURLY TOP	1-2 N.Y. 15 BEAN MOSAIC						
0 POWDERY MILDEW	0 BEAN MOSAIC VIRUS 4						
1 HALO BLIGHT	0 FUSCOUS BLIGHT						
0 ALFALFA MOSAIC VIRUS	0 ALFALFA MOSAIC VIRUS 2						
0 POD MOTTLE VIRUS	0 RED NODE VIRUS						
0 ROOT KNOT NEMATODE	OTHER (Specify)						
12. INSECT RESISTANCE: (0 = Not tested; 1 ≠ Susceptible; 2 ≠ Res	istant)						
O APHIDS	0 LEAF HOPPERS						
0 POD BORER	0 LYGUS						
0 THRIPS	0 WEAVILS						
0 SEED CORN MAGGOT	0 OTHER (Specify)						
13. PHYSIOLOGICAL RESISTANCE: (0 = Not tested; 1 = Susceptible; 2 = Resistant)							
0 HEAT 0 COLD 0 DROUG	OTHER (Specify)						

REFERENCES: The following publications may be used as a reference in completing this form:

- 1. Beans of New York. Vol. 1 Part II of Vegetables of New York. U.P. Hedrick et al. J. B. Lyon Company, Albany, N.Y. 1931.
- 2. Yarnell, S. H., Cytogenetics of the Vegetable Crops IV. Legumes. Bot. Rev. 31:247 330. 1965.
- 3. USDA Yearbook of Agriculture. 1937.

COLOR: Nickerson's or any recognized color fan may be used to determine the colors.